Figure 1

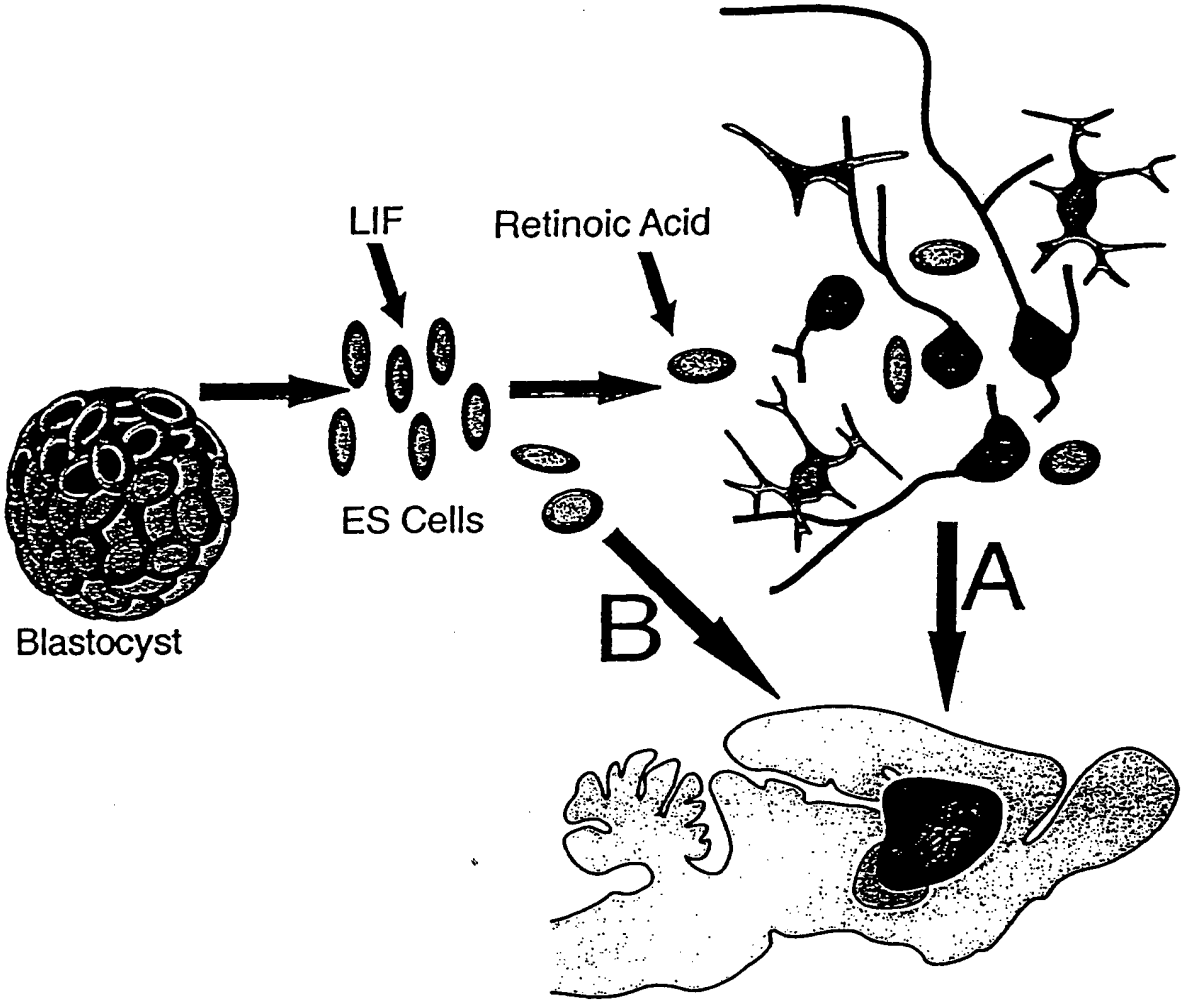


Figure 2

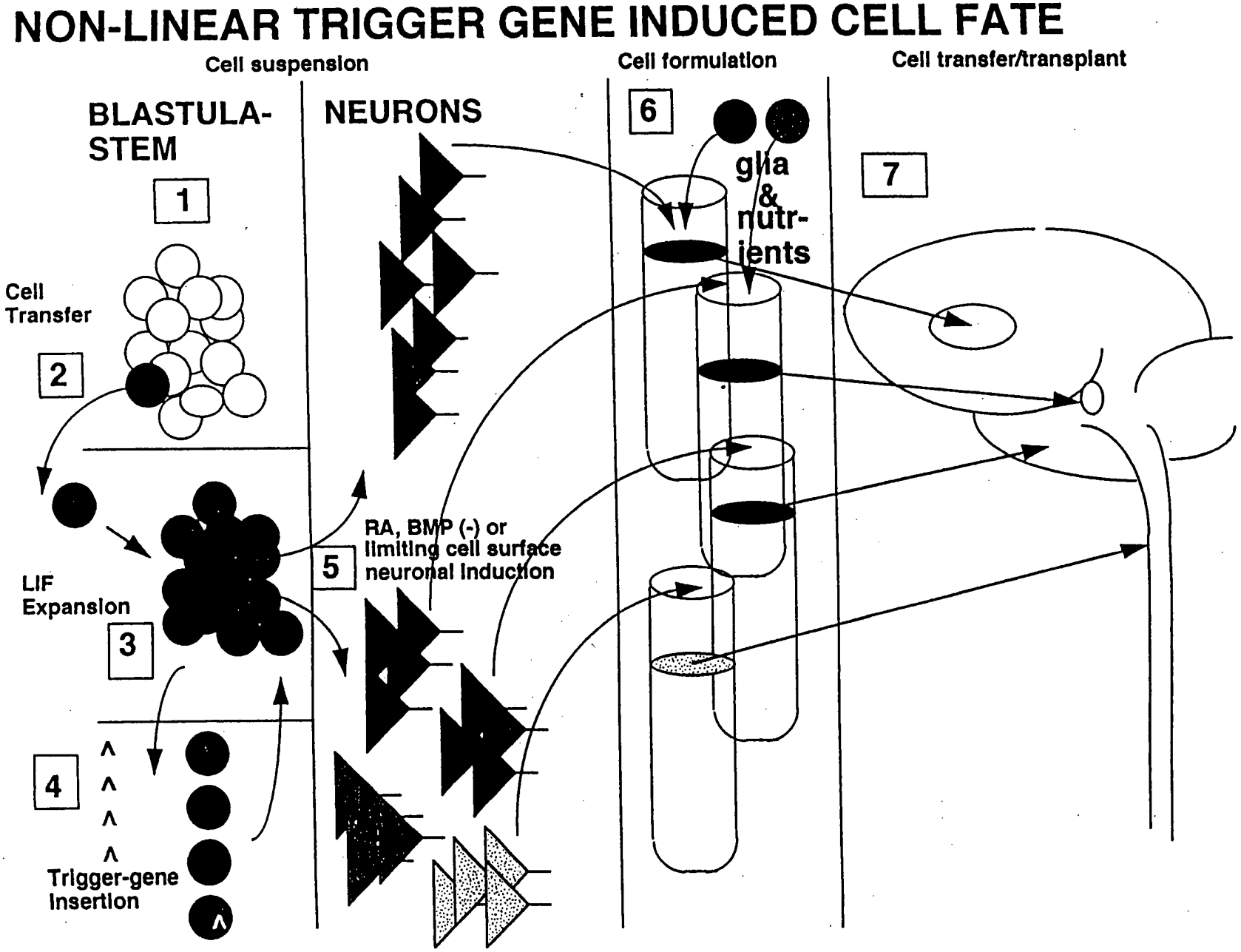

NON-LINEAR TRIGGER GENE INDUCED CELL FATE
Cell suspension
Cell formulation
Cell transfer/transplant
BLASTULA-STEM
NEURONS
1
2
3
4
5
6
7
Cell Transfer
LIF Expansion
Trigger-gene Insertion
RA, BMP (-) or limiting cell surface neuronal induction
glia & nutr-ients

Figure 3A

Vector map of pIRES2-EGFP.
Picture from http://www.clontech.com/techinfo/vectors/pIRES2-EGFP.html. Accessed 5/18/00.
Additional information about the vector can be accessed from that site.

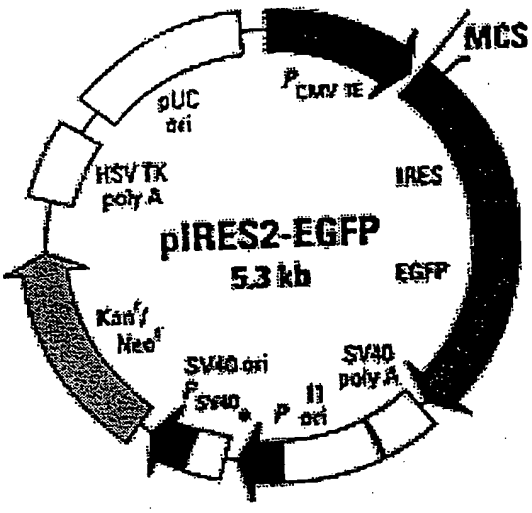


Figure 3B

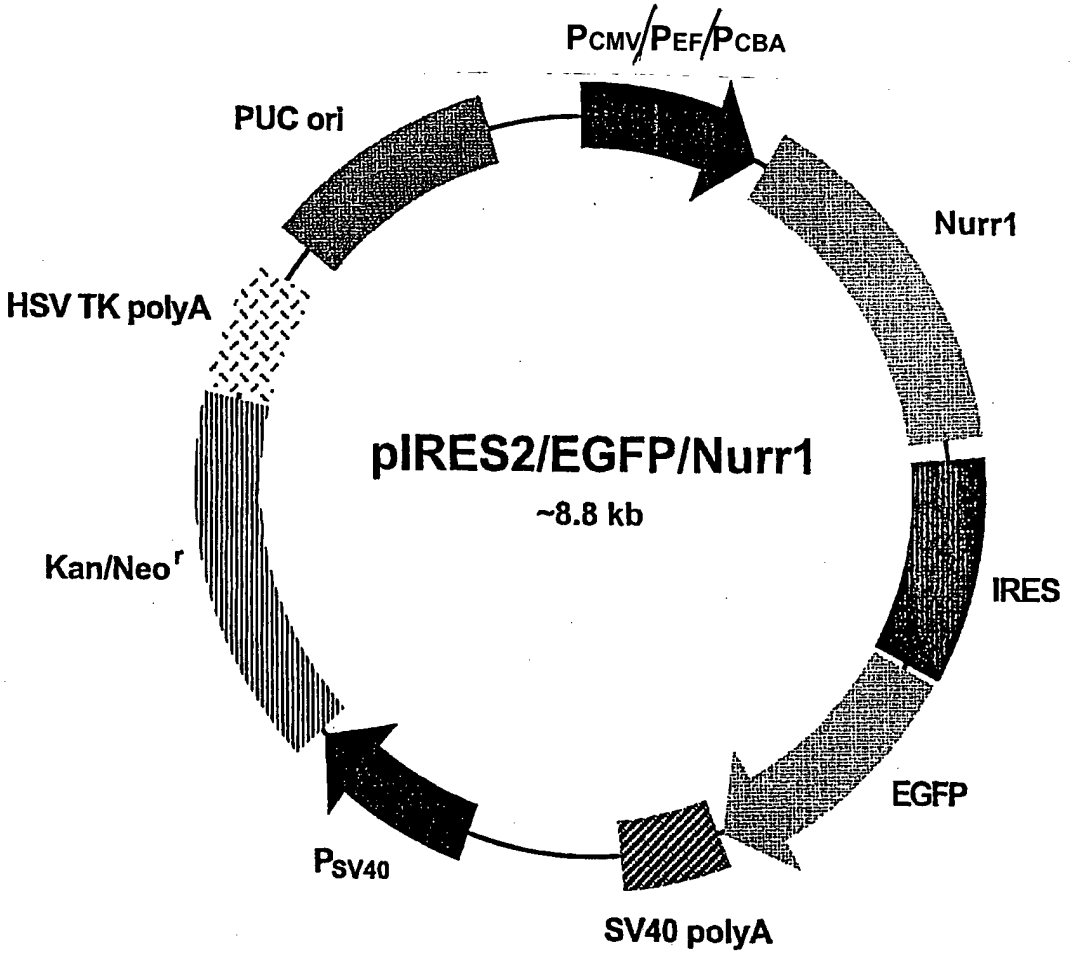
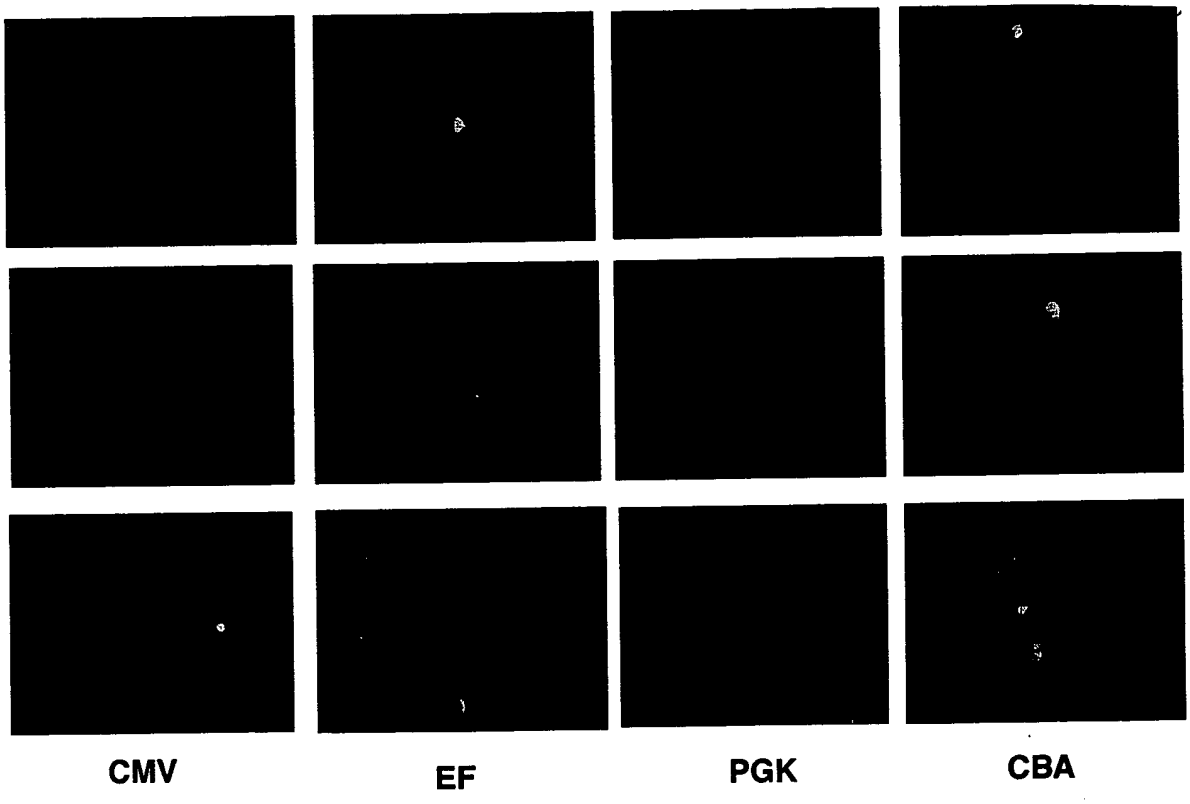

PCMV/PEF/PCBA
Nurr1
IRES
EGFP
SV40 polyA
PSV40
Kan/Neor
HSV TK polyA
PUC ori
pIRES2/EGFP/Nurr1
~8.8 kb

Figure 4A



PATENT APPLICATION

Figure 4B

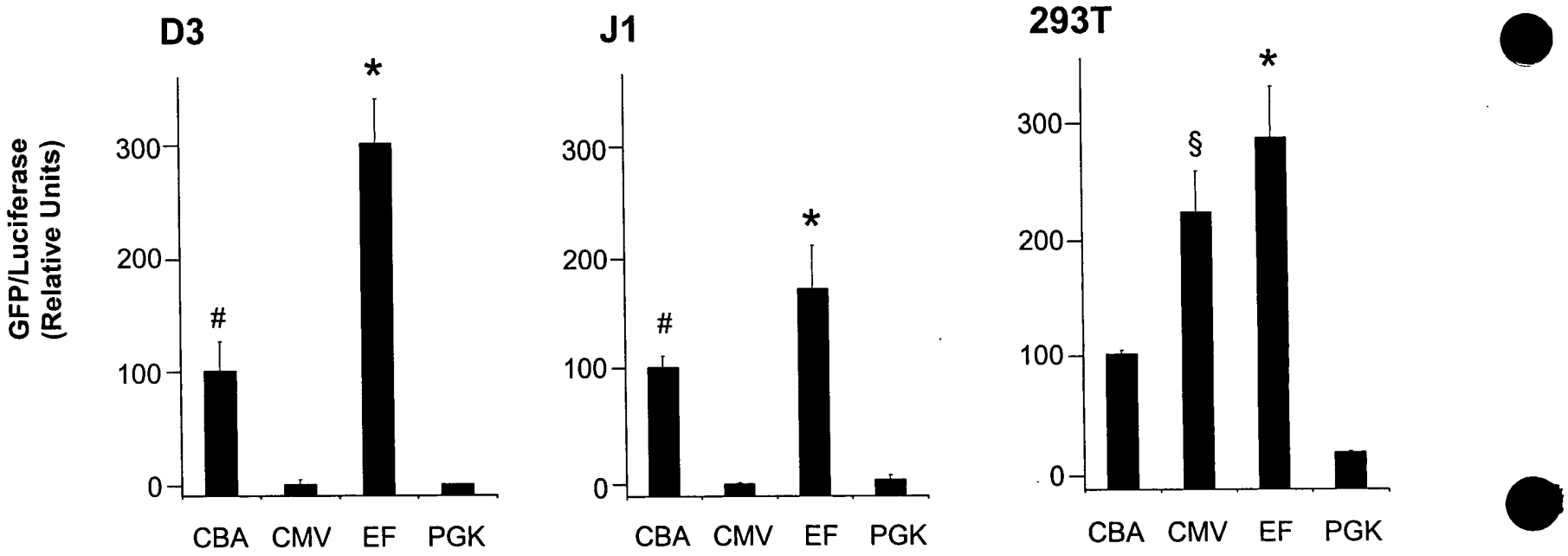


Figure 5

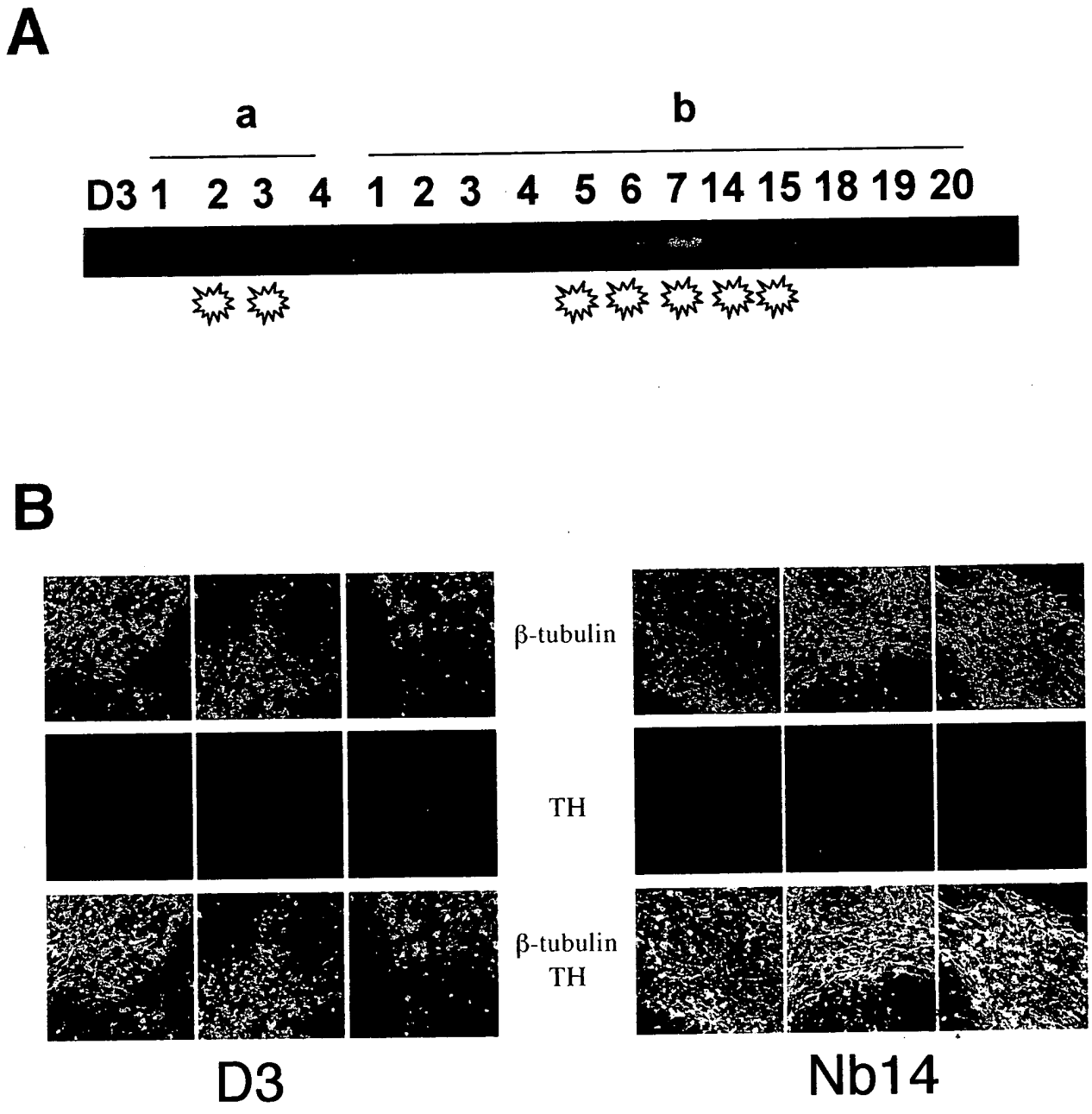

A
a
b
D3 1 2 3 4 1 2 3 4 5 6 7 14 15 18 19 20
B
β-tubulin
TH
β-tubulin
TH
D3
Nb14

Figure 6

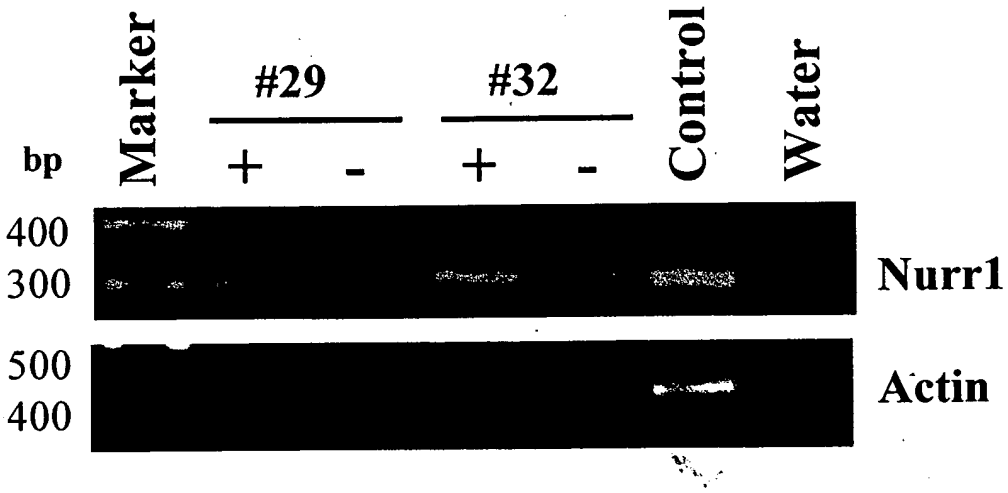
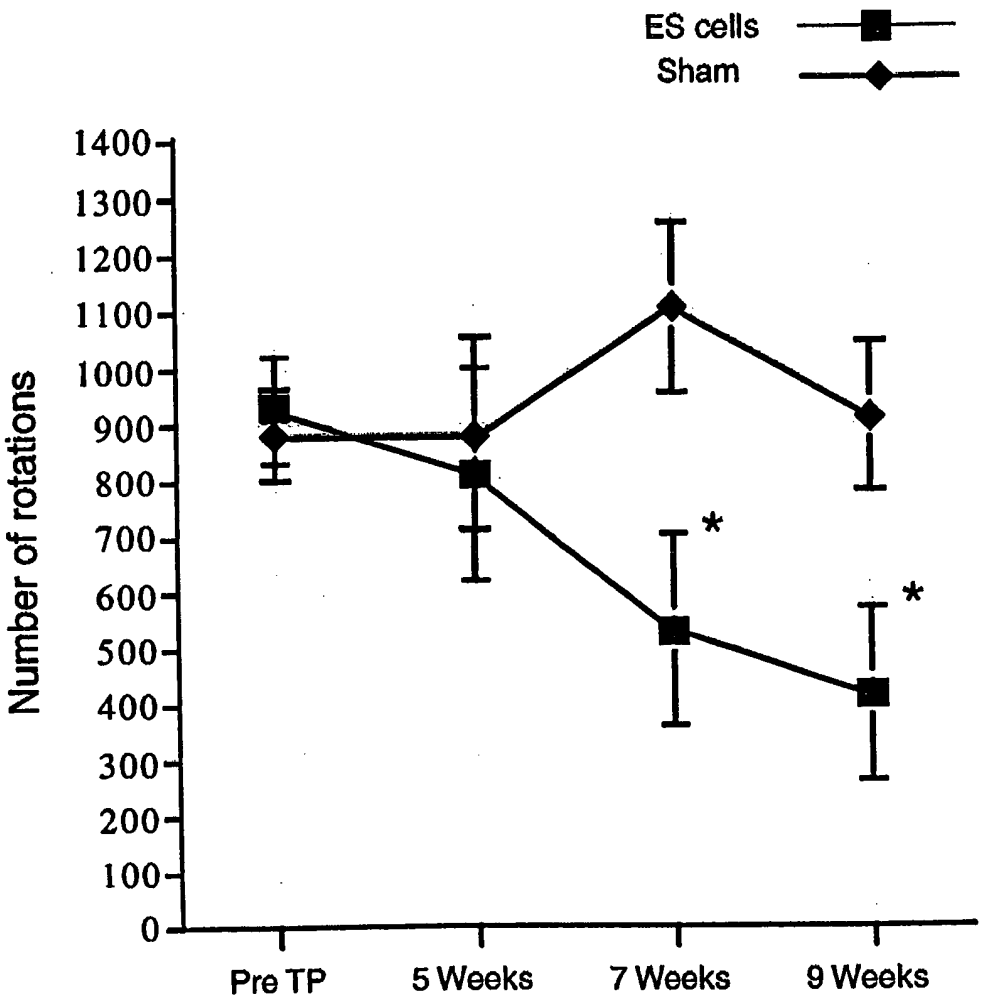


Figure 7


ES cells
Sham
Number of rotations
1400
1300
1200
1100
1000
900
800
700
600
500
400
300
200
100
0
*
*
Pre TP
5 Weeks
7 Weeks
9 Weeks